

**Final Results per stage and division
KDS-Vault#23, Kristiansund
2022-07-23**

OPEN Results per stage

Stage: 1. One

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	70.0000	4.8183	57	11.83	15. Andrè Røyset	+Open	-	U	aroyset

Stage: 2. Two

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	130.0000	4.6950	117	24.92	15. Andrè Røyset	+Open	-	U	aroyset

Stage: 3. Three

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	55.0000	3.9002	50	12.82	15. Andrè Røyset	+Open	-	U	aroyset

Stage: 4. Four

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	1.8257	44	24.10	15. Andrè Røyset	+Open	-	U	aroyset

Stage: 5. Five

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	7.2993	50	6.85	15. Andrè Røyset	+Open	-	U	aroyset

Stage: 6. Six

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	6.4880	46	7.09	15. Andrè Røyset	+Open	-	U	aroyset

STANDARD Results per stage

Stage: 1. One

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	70.0000	3.1854	56	17.58	24. Joakim Glasø	-Standard	-	U	
2	97.55	68.2878	3.1075	50	16.09	9. Vidar Aamodt	-Standard	-	U	vidar
3	94.23	65.9580	3.0015	60	19.99	20. Roar Holden	+Standard	S	U	roho
4	81.93	57.3504	2.6098	41	15.71	16. Alexander Lindstad Grimli	-Standard	-	U	
5	66.95	46.8631	2.1326	37	17.35	18. Martin Bø	-Standard	-	U	

Stage: 2. Two

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	130.0000	3.3297	123	36.94	20. Roar Holden	+Standard	S	U	roho
2	96.22	125.0892	3.2039	104	32.46	16. Alexander Lindstad Grimli	-Standard	-	U	
3	88.33	114.8302	2.9412	100	34.00	18. Martin Bø	-Standard	-	U	
4	82.08	106.7036	2.7330	95	34.76	9. Vidar Aamodt	-Standard	-	U	vidar
5	57.58	74.8485	1.9171	68	35.47	24. Joakim Glasø	-Standard	-	U	

Stage: 3. Three

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	55.0000	2.5568	45	17.60	20. Roar Holden	+Standard	S	U	roho
2	93.32	51.3256	2.3860	45	18.86	9. Vidar Aamodt	-Standard	-	U	vidar
3	77.19	42.4561	1.9737	30	15.20	16. Alexander Lindstad Grimli	-Standard	-	U	
4	73.68	40.5215	1.8837	35	18.58	24. Joakim Glasø	-Standard	-	U	
5	47.35	26.0398	1.2105	23	19.00	18. Martin Bø	-Standard	-	U	

Stage: 4. Four

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	2.7706	97	35.01	20. Roar Holden	+Standard	S	U	roho
2	74.52	74.5229	2.0648	88	42.62	24. Joakim Glasø	-Standard	-	U	
3	65.15	65.1535	1.8052	58	32.13	18. Martin Bø	-Standard	-	U	
4	46.20	46.1960	1.2799	54	42.19	9. Vidar Aamodt	-Standard	-	U	vidar
5	44.76	44.7599	1.2401	55	44.35	16. Alexander Lindstad Grimli	-Standard	-	U	

Stage: 5. Five

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	4.4790	49	10.94	20. Roar Holden	+Standard	S	U	roho
2	84.12	42.0594	3.7677	48	12.74	16. Alexander Lindstad Grimli	-Standard	-	U	
3	77.51	38.7555	3.4717	46	13.25	18. Martin Bø	-Standard	-	U	

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
4	67.17	33.5838	3.0084	50	16.62	24. Joakim Glasø	-Standard	-	U	
5	57.80	28.9017	2.5890	48	18.54	9. Vidar Aamodt	-Standard	-	U	vidar

Stage: 6. Six

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	5.5758	46	8.25	16. Alexander Lindstad Grimli	-Standard	-	U	
2	94.60	47.2984	5.2745	49	9.29	20. Roar Holden	+Standard	S	U	roho
3	92.07	46.0338	5.1335	50	9.74	24. Joakim Glasø	-Standard	-	U	
4	83.03	41.5157	4.6296	40	8.64	9. Vidar Aamodt	-Standard	-	U	vidar
5	67.79	33.8974	3.7801	44	11.64	18. Martin Bø	-Standard	-	U	

PRODUCTION Results per stage

Stage: 1. One

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	70.0000	2.5929	60	23.14	14. Michael Aderskog	-Production	-	U	
2	85.40	59.7800	2.2143	50	22.58	22. Jan Helge Berge	-Production	-	U	
3	64.69	45.2830	1.6774	34	20.27	5. Ole Raymond Båtstad	-Production	-	U	
4	62.53	43.7729	1.6214	43	26.52	12. Frederik Holden	-Production	-	U	
5	58.29	40.8031	1.5114	49	32.42	19. Marte Bø	-Production	L	U	
6	57.47	40.2268	1.4901	36	24.16	23. Halgeir Knutsen	-Production	-	U	
7	39.22	27.4558	1.0170	58	57.03	21. Marianne Johnsen	-Production	L	U	

Stage: 2. Two

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	130.0000	3.5077	118	33.64	22. Jan Helge Berge	-Production	-	U	
2	85.32	110.9153	2.9928	116	38.76	5. Ole Raymond Båtstad	-Production	-	U	
3	72.01	93.6117	2.5259	122	48.30	14. Michael Aderskog	-Production	-	U	
4	69.05	89.7672	2.4221	112	46.24	19. Marte Bø	-Production	L	U	
5	68.91	89.5780	2.4170	118	48.82	23. Halgeir Knutsen	-Production	-	U	
6	60.27	78.3560	2.1142	114	53.92	12. Frederik Holden	-Production	-	U	
7	30.39	39.5093	1.0661	122	114.44	21. Marianne Johnsen	-Production	L	U	

Stage: 3. Three

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	55.0000	2.1266	41	19.28	22. Jan Helge Berge	-Production	-	U	
2	92.51	50.8824	1.9674	47	23.89	23. Halgeir Knutsen	-Production	-	U	
3	71.53	39.3392	1.5210	47	30.90	14. Michael Aderskog	-Production	-	U	
4	63.05	34.6792	1.3409	38	28.34	12. Frederik Holden	-Production	-	U	
5	58.03	31.9192	1.2341	36	29.17	19. Marte Bø	-Production	L	U	
6	36.59	20.1272	0.7782	36	46.26	21. Marianne Johnsen	-Production	L	U	
7	31.72	17.4472	0.6746	21	31.13	5. Ole Raymond Båtstad	-Production	-	U	

Stage: 4. Four

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	1.9819	81	40.87	5. Ole Raymond Båtstad	-Production	-	U	
2	94.35	94.3509	1.8699	90	48.13	22. Jan Helge Berge	-Production	-	U	
3	84.68	84.6758	1.6782	85	50.65	14. Michael Aderskog	-Production	-	U	
4	72.56	72.5649	1.4382	75	52.15	19. Marte Bø	-Production	L	U	
5	64.23	64.2317	1.2730	92	72.27	12. Frederik Holden	-Production	-	U	
6	63.80	63.7996	1.2644	81	64.06	23. Halgeir Knutsen	-Production	-	U	

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
7	44.45	44.4472	0.8809	96	108.98	21. Marianne Johnsen	-Production	L	U	

Stage: 5. Five

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	3.5971	50	13.90	14. Michael Aderskog	-Production	-	U	
2	90.96	45.4806	3.2720	48	14.67	5. Ole Raymond Båtstad	-Production	-	U	
3	76.03	38.0143	2.7348	46	16.82	22. Jan Helge Berge	-Production	-	U	
4	67.53	33.7652	2.4291	48	19.76	19. Marte Bø	-Production	L	U	
5	66.32	33.1584	2.3855	50	20.96	21. Marianne Johnsen	-Production	L	U	
6	48.30	24.1477	1.7372	48	27.63	12. Frederik Holden	-Production	-	U	
7	44.02	22.0076	1.5833	50	31.58	23. Halgeir Knutsen	-Production	-	U	

Stage: 6. Six

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	4.5545	46	10.10	22. Jan Helge Berge	-Production	-	U	
2	95.10	47.5518	4.3315	46	10.62	12. Frederik Holden	-Production	-	U	
3	80.82	40.4108	3.6810	48	13.04	14. Michael Aderskog	-Production	-	U	
4	72.08	36.0416	3.2830	50	15.23	23. Halgeir Knutsen	-Production	-	U	
5	67.50	33.7504	3.0743	36	11.71	5. Ole Raymond Båtstad	-Production	-	U	
6	63.18	31.5921	2.8777	44	15.29	19. Marte Bø	-Production	L	U	
7	42.35	21.1740	1.9287	46	23.85	21. Marianne Johnsen	-Production	L	U	

REVOLVER Results per stage

Stage: 1. One

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	70.0000	1.2771	50	39.15	2. Espen Eidsvaag Sevaldsen	+Revolver	-	U	

Stage: 2. Two

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	130.0000	0.7793	47	60.31	2. Espen Eidsvaag Sevaldsen	+Revolver	-	U	

Stage: 3. Three

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	55.0000	0.4204	16	38.06	2. Espen Eidsvaag Sevaldsen	+Revolver	-	U	

Stage: 4. Four

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	0.9196	69	75.03	2. Espen Eidsvaag Sevaldsen	+Revolver	-	U	

Stage: 5. Five

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	0.9996	49	49.02	2. Espen Eidsvaag Sevaldsen	+Revolver	-	U	

Stage: 6. Six

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	1.7955	46	25.62	2. Espen Eidsvaag Sevaldsen	+Revolver	-	U	

PISTOL CALIBER CARBINE Results per stage

Stage: 1. One

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	70.0000	5.6256	58	10.31	11. Tore Fiborg	-Pistol Caliber Carbine	S	U	minfoglio
2	89.70	62.7911	5.0463	60	11.89	6. Ståle Eilertsen	-Pistol Caliber Carbine	-	U	firefly
3	75.36	52.7490	4.2392	56	13.21	4. Svein Olav Nilsen	-Pistol Caliber Carbine	S	U	haarek
4	70.65	49.4545	3.9745	56	14.09	8. Asbjørn Sagøy	-Pistol Caliber Carbine	S	U	
5	26.04	18.2265	1.4648	26	17.75	7. Solvor Haugnes	-Pistol Caliber Carbine	L	U	

Stage: 2. Two

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	130.0000	4.9760	114	22.91	11. Tore Fiborg	-Pistol Caliber Carbine	S	U	minfoglio
2	97.87	127.2343	4.8701	120	24.64	6. Ståle Eilertsen	-Pistol Caliber Carbine	-	U	firefly
3	52.79	68.6222	2.6266	98	37.31	7. Solvor Haugnes	-Pistol Caliber Carbine	L	U	
4	51.14	66.4853	2.5448	122	47.94	4. Svein Olav Nilsen	-Pistol Caliber Carbine	S	U	haarek
5	51.07	66.3950	2.5414	66	25.97	8. Asbjørn Sagøy	-Pistol Caliber Carbine	S	U	

Stage: 3. Three

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	55.0000	3.4508	47	13.62	6. Ståle Eilertsen	-Pistol Caliber Carbine	-	U	firefly
2	76.70	42.1866	2.6469	41	15.49	11. Tore Fiborg	-Pistol Caliber Carbine	S	U	minfoglio
3	55.92	30.7549	1.9296	34	17.62	8. Asbjørn Sagøy	-Pistol Caliber Carbine	S	U	
4	54.54	29.9968	1.8821	30	15.94	4. Svein Olav Nilsen	-Pistol Caliber Carbine	S	U	haarek
5	12.88	7.0813	0.4443	13	29.26	7. Solvor Haugnes	-Pistol Caliber Carbine	L	U	

Stage: 4. Four

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	4.1648	94	22.57	11. Tore Fiborg	-Pistol Caliber Carbine	S	U	minfoglio
2	85.28	85.2785	3.5517	90	25.34	6. Ståle Eilertsen	-Pistol Caliber Carbine	-	U	firefly
3	73.20	73.2032	3.0488	90	29.52	8. Asbjørn Sagøy	-Pistol Caliber Carbine	S	U	
4	45.60	45.6048	1.8994	77	40.54	4. Svein Olav Nilsen	-Pistol Caliber Carbine	S	U	haarek
5	41.53	41.5259	1.7295	67	38.74	7. Solvor Haugnes	-Pistol Caliber Carbine	L	U	

Stage: 5. Five

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	10.4348	48	4.60	11. Tore Fiborg	-Pistol Caliber Carbine	S	U	minfoglio
2	85.03	42.5139	8.8725	48	5.41	6. Ståle Eilertsen	-Pistol Caliber Carbine	-	U	firefly
3	67.77	33.8873	7.0721	50	7.07	8. Asbjørn Sagøy	-Pistol Caliber Carbine	S	U	

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
4	39.76	19.8790	4.1487	48	11.57	7. Solvor Haugnes	-Pistol Caliber Carbine L		U	
5	32.21	16.1064	3.3613	48	14.28	4. Svein Olav Nilsen	-Pistol Caliber Carbine S		U	haarek

Stage: 6. Six

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	6.5484	48	7.33	11. Tore Fiborg	-Pistol Caliber Carbine S		U	minfoglio
2	82.44	41.2195	5.3985	42	7.78	8. Asbjørn Sagøy	-Pistol Caliber Carbine S		U	
3	80.93	40.4642	5.2995	46	8.68	6. Ståle Eilertsen	-Pistol Caliber Carbine -		U	firefly
4	79.52	39.7584	5.2071	44	8.45	4. Svein Olav Nilsen	-Pistol Caliber Carbine S		U	haarek
5	41.89	20.9450	2.7431	44	16.04	7. Solvor Haugnes	-Pistol Caliber Carbine L		U	

PRODUCTION OPTICS Results per stage

Stage: 1. One

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	70.0000	3.8991	68	17.44	17. Geir Ove Liavag	-Production Optics	SS	U	gol
2	81.79	57.2531	3.1891	56	17.56	1. Håkon Laksberg	-Production Optics	-	U	laxen
3	46.80	32.7570	1.8246	31	16.99	25. Jan Kåre Hovden	-Production Optics	-	U	
4	26.83	18.7792	1.0460	30	28.68	10. Kjell Arve Lillevik	-Production Optics	-	U	
5	26.24	18.3693	1.0232	15	14.66	3. Kåre-Anton Midtsian	-Production Optics	-	U	midtsian

Stage: 2. Two

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	130.0000	3.6014	120	33.32	17. Geir Ove Liavag	-Production Optics	SS	U	gol
2	80.76	104.9903	2.9086	84	28.88	1. Håkon Laksberg	-Production Optics	-	U	laxen
3	71.10	92.4239	2.5605	90	35.15	3. Kåre-Anton Midtsian	-Production Optics	-	U	midtsian
4	66.65	86.6432	2.4003	124	51.66	25. Jan Kåre Hovden	-Production Optics	-	U	
5	12.04	15.6569	0.4337	31	71.47	10. Kjell Arve Lillevik	-Production Optics	-	U	

Stage: 3. Three

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	55.0000	1.9352	43	22.22	17. Geir Ove Liavag	-Production Optics	SS	U	gol
2	90.77	49.9238	1.7566	28	15.94	1. Håkon Laksberg	-Production Optics	-	U	laxen
3	87.54	48.1456	1.6940	32	18.89	3. Kåre-Anton Midtsian	-Production Optics	-	U	midtsian
4	79.46	43.7047	1.5378	34	22.11	25. Jan Kåre Hovden	-Production Optics	-	U	
5	27.10	14.9030	0.5244	17	32.42	10. Kjell Arve Lillevik	-Production Optics	-	U	

Stage: 4. Four

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	100.0000	2.7362	84	30.70	3. Kåre-Anton Midtsian	-Production Optics	-	U	midtsian
2	87.86	87.8638	2.4041	94	39.10	17. Geir Ove Liavag	-Production Optics	SS	U	gol
3	76.58	76.5760	2.0952	77	36.75	1. Håkon Laksberg	-Production Optics	-	U	laxen
4	42.59	42.5935	1.1654	72	61.78	10. Kjell Arve Lillevik	-Production Optics	-	U	
5	29.59	29.5898	0.8096	35	43.23	25. Jan Kåre Hovden	-Production Optics	-	U	

Stage: 5. Five

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	5.0607	50	9.88	17. Geir Ove Liavag	-Production Optics	SS	U	gol
2	97.58	48.7901	4.9383	48	9.72	1. Håkon Laksberg	-Production Optics	-	U	laxen
3	70.21	35.1066	3.5533	42	11.82	25. Jan Kåre Hovden	-Production Optics	-	U	

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
4	66.98	33.4915	3.3898	36	10.62	3. Kåre-Anton Midtsian	-Production Optics	-	U	midtsian
5	0.00	0.0000	0.0000	0	46.27	10. Kjell Arve Lillevik	-Production Optics	-	U	

Stage: 6. Six

#.	STAGE PERCENT	STAGE POINTS	HIT FACTOR	POINTS	TIME (sec)	COMPETITOR #. Name	DIV	CAT	CLS	ICS
1	100.00	50.0000	5.5127	50	9.07	1. Håkon Laksberg	-Production Optics	-	U	laxen
2	84.28	42.1394	4.6460	42	9.04	17. Geir Ove Liavag	-Production Optics	SS	U	gol
3	55.14	27.5684	3.0395	40	13.16	3. Kåre-Anton Midtsian	-Production Optics	-	U	midtsian
4	37.87	18.9366	2.0878	29	13.89	25. Jan Kåre Hovden	-Production Optics	-	U	
5	0.00	0.0000	0.0000	0	21.20	10. Kjell Arve Lillevik	-Production Optics	-	U	